

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/809,312A
Source: IFW@
Date Processed by STIC: 4/12/05

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 04/12/2005

PATENT APPLICATION: US/10/809,312A

TIME: 14:13:58

Input Set : A:\Sequence Listing 5199-69.txt
Output Set: N:\CRF4\04122005\J809312A.raw

RAW SEQUENCE LISTING DATE: 04/12/2005
 PATENT APPLICATION: US/10/809,312A TIME: 14:13:58

Input Set : A:\Sequence Listing 5199-69.txt
 Output Set: N:\CRF4\04122005\J809312A.raw

85	20	25	30	
88	Ala Pro Ala Pro Leu Gly Pro Tyr Glu Val Leu Gly Gly Ala Leu Glu			
89	35	40	45	
92	Gly Gly Leu Pro Gly Gly Glu Pro Leu Ala Gly Asp Gly Phe Ser			
93	50	55	60	
96	Asp Trp Met Thr Glu Arg Val Asp Phe Thr Ala Leu Leu Pro Leu Glu			
97	65	70	75	80
100	Ala Pro Leu Pro Pro Gly Thr Leu Pro Pro Pro Ser Pro Ala Pro Pro			
101	85	90	95	
104	Asp Leu Glu Ala Met Ala Ser Leu Leu Lys Lys Glu Leu Glu Gln Met			
105	100	105	110	
108	Glu Asp Phe Phe Leu Asp Ala Pro Leu Leu Pro Pro Pro Ser Pro Pro			
109	115	120	125	
112	Pro Pro Pro Pro Ala Pro Ser Leu Pro Leu Pro Leu Pro Leu Pro			
113	130	135	140	
116	Thr Phe Asp Leu Pro Gln Pro Pro Thr Leu Asp Thr Leu Asp Leu Leu			
117	145	150	155	160
120	Ala Val Tyr Cys Arg Ser Glu Ala Gly Pro Gly Asp Ser Gly Leu Thr			
121	165	170	175	
124	Thr Leu Pro Val Pro Gln Gln Pro Pro Pro Leu Ala Pro Leu Pro Ser			
125	180	185	190	
128	Pro Ser Arg Pro Ala Pro Tyr Pro Ser Pro Ala Ser Thr Arg Gly Asp			
129	195	200	205	
132	Arg Lys Gln Lys Lys Arg Asp Gln Asn Lys Ser Ala Ala Leu Arg Tyr			
133	210	215	220	
136	Arg Gln Arg Lys Arg Ala Glu Gly Glu Ala Leu Glu Gly Glu Cys Gln			
137	225	230	235	240
140	Gly Leu Glu Ala Arg Asn Arg Glu Leu Arg Glu Arg Ala Glu Ser Val			
141	245	250	255	
144	Glu Arg Glu Ile Gln Tyr Val Lys Asp Leu Leu Ile Glu Val Tyr Lys			
145	260	265	270	
148	Ala Arg Ser Gln Arg Thr Arg Ser Ala			
149	275	280		
152	<210> SEQ ID NO: 3			
154	<211> LENGTH: 15			
156	<212> TYPE: DNA			
158	<213> ORGANISM: rat			
160	<400> SEQUENCE: 3			
162	catgagaacc tagtc		15	
164	<210> SEQ ID NO: 4			
166	<211> LENGTH: 19			
168	<212> TYPE: DNA			
170	<213> ORGANISM: artificial sequence			
172	<220> FEATURE:			
174	<223> OTHER INFORMATION: primer			
176	<400> SEQUENCE: 4			
178	cttggtttct cagttgcac		19	
180	<210> SEQ ID NO: 5			
182	<211> LENGTH: 23			

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```

184 <212> TYPE: DNA
186 <213> ORGANISM: artificial sequence
188 <220> FEATURE:
190 <223> OTHER INFORMATION: primer
192 <400> SEQUENCE: 5
194 tgcacacctg cctcagccat gtc                                23
196 <210> SEQ ID NO: 6
198 <211> LENGTH: 57
200 <212> TYPE: DNA
202 <213> ORGANISM: artificial sequence
204 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 6
210 ctcgagaacc atggactaca aggacgtatga tgacaaagga tcactcctgg cgaccct      57
212 <210> SEQ ID NO: 7
214 <211> LENGTH: 57
216 <212> TYPE: DNA
218 <213> ORGANISM: artificial sequence
220 <220> FEATURE:
222 <223> OTHER INFORMATION: primer
224 <400> SEQUENCE: 7
226 ctcgagaagc atggactaca aggacgtatga tgacaaagga gcattccctac tcaagaa      57
228 <210> SEQ ID NO: 8
230 <211> LENGTH: 30
232 <212> TYPE: DNA
234 <213> ORGANISM: artificial sequence
236 <220> FEATURE:
238 <223> OTHER INFORMATION: primer
240 <400> SEQUENCE: 8
242 gaattctcgta gcttggtttc tcagttgcac                                30
244 <210> SEQ ID NO: 9
246 <211> LENGTH: 57
248 <212> TYPE: DNA
250 <213> ORGANISM: artificial sequence
252 <220> FEATURE:
254 <223> OTHER INFORMATION: primer
256 <400> SEQUENCE: 9
258 ctcgagaagc atggactaca aggacgtatga tgacaaagga gcattccctac tcaagaa      57
260 <210> SEQ ID NO: 10
262 <211> LENGTH: 87
264 <212> TYPE: DNA
266 <213> ORGANISM: artificial sequence
268 <220> FEATURE:
270 <223> OTHER INFORMATION: primer
272 <400> SEQUENCE: 10
274 ttcttctgtc tcttttcta gttagttcttc gttttcttctt gctagttctt ctgctcttg      60
276 ttcgagggtg ctggcaggac taggata                                87
279 <210> SEQ ID NO: 11
281 <211> LENGTH: 83

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```

283 <212> TYPE: DNA
285 <213> ORGANISM: artificial sequence
287 <220> FEATURE:
289 <223> OTHER INFORMATION: primer
291 <400> SEQUENCE: 11
293 gcaagagaaa acgaagaact actagaaaaaa gaagcagaag aactagaaca agaaatgcag      60
295 agcttagaggg cgagtgccaa ggg                                         83
298 <210> SEQ ID NO: 12
300 <211> LENGTH: 30
302 <212> TYPE: DNA
304 <213> ORGANISM: artificial sequence
306 <220> FEATURE:
308 <223> OTHER INFORMATION: primer
310 <400> SEQUENCE: 12
312 gaattctcgaa gcttggtttc tcagttgcac                                         30
314 <210> SEQ ID NO: 13
316 <211> LENGTH: 57
318 <212> TYPE: DNA
320 <213> ORGANISM: artificial sequence
322 <220> FEATURE:
324 <223> OTHER INFORMATION: primer
326 <400> SEQUENCE: 13
328 ctcgagaagc atggactaca aggacgtatga tgacaaagga gcatccctac tcaagaa      57
331 <210> SEQ ID NO: 14
333 <211> LENGTH: 30
335 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence
339 <220> FEATURE:
341 <223> OTHER INFORMATION: primer
343 <400> SEQUENCE: 14
345 gaattctcgaa gcttggtttc tcagttgcac                                         30
348 <210> SEQ ID NO: 15
350 <211> LENGTH: 100
352 <212> TYPE: DNA
354 <213> ORGANISM: artificial sequence
356 <220> FEATURE:
358 <223> OTHER INFORMATION: primer
360 <400> SEQUENCE: 15
362 gaattcaacc atggactaca aggacgtatga tgacaaaatg gcatctatga ctggaggaca      60
364 acaaataggaa agagacccag acctcgaaaca aagagcagaa                                         100
367 <210> SEQ ID NO: 16
369 <211> LENGTH: 30
371 <212> TYPE: DNA
373 <213> ORGANISM: artificial sequence
375 <220> FEATURE:
377 <223> OTHER INFORMATION: primer
379 <400> SEQUENCE: 16
381 gaattctcgaa gcttggtttc tcagttgcac                                         30
384 <210> SEQ ID NO: 17

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Input Set : A:\Sequence Listing 5199-69.txt
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```

386 <211> LENGTH: 99
388 <212> TYPE: PRT
390 <213> ORGANISM: artificial sequence
392 <220> FEATURE:
394 <223> OTHER INFORMATION: tag
396 <400> SEQUENCE: 17
398 Met Asp Tyr Lys Asp Asp Asp Asp Lys Met Ala Ser Met Thr Gly Gly
399 1      5          10          15
402 Gln Gln Met Gly Arg Asp Pro Asp Leu Glu Gln Arg Ala Glu Glu Leu
403      20         25          30
406 Arg Glu Asn Glu Glu Leu Leu Glu Lys Glu Ala Glu Glu Leu Glu Gln
407      35         40          45
410 Glu Asn Ala Glu Leu Glu Gly Glu Cys Gln Gly Leu Glu Ala Arg Asn
411      50         55          60
414 Arg Glu Leu Arg Glu Arg Ala Glu Ser Val Glu Arg Glu Ile Gln Tyr
415 65      70          75          80
418 Val Lys Asp Leu Leu Ile Glu Val Tyr Lys Ala Arg Ser Gln Arg Thr
419      85         90          95
421 Arg Ser Ala
423 <210> SEQ ID NO: 18
425 <211> LENGTH: 92
427 <212> TYPE: DNA
429 <213> ORGANISM: artificial sequence
431 <220> FEATURE:
433 <223> OTHER INFORMATION: synthetic oligo nucleotide
435 <400> SEQUENCE: 18
437 tcgagtcatg gtaaaaatga cgtcatggta attatcatgg taaaaatgac gtcatggtaa 60
439 ttatcatgtt aaaaatgacg tcatggtaat ta 92
441 <210> SEQ ID NO: 19
443 <211> LENGTH: 92
445 <212> TYPE: DNA
447 <213> ORGANISM: artificial sequence
449 <220> FEATURE:
451 <223> OTHER INFORMATION: synthetic oligo nucleotide
453 <400> SEQUENCE: 19
455 agcttaatta ccatgacgtc attttacca tgataattac catgacgtca ttttaccat 60
457 gataattacc atgacgtcat ttttaccatg ac 92
459 <210> SEQ ID NO: 20
461 <211> LENGTH: 21
463 <212> TYPE: RNA
465 <213> ORGANISM: artificial sequence
467 <220> FEATURE:
469 <223> OTHER INFORMATION: synthetic oligo nucleotide
471 <400> SEQUENCE: 20
473 aaugucagcug cucucaggua c 21

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VERIFICATION SUMMARY

PATENT APPLICATION: **US/10/809,312A**

DATE: 04/12/2005

TIME: 14:13:59

Input Set : **A:\Sequence Listing 5199-69.txt**
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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number